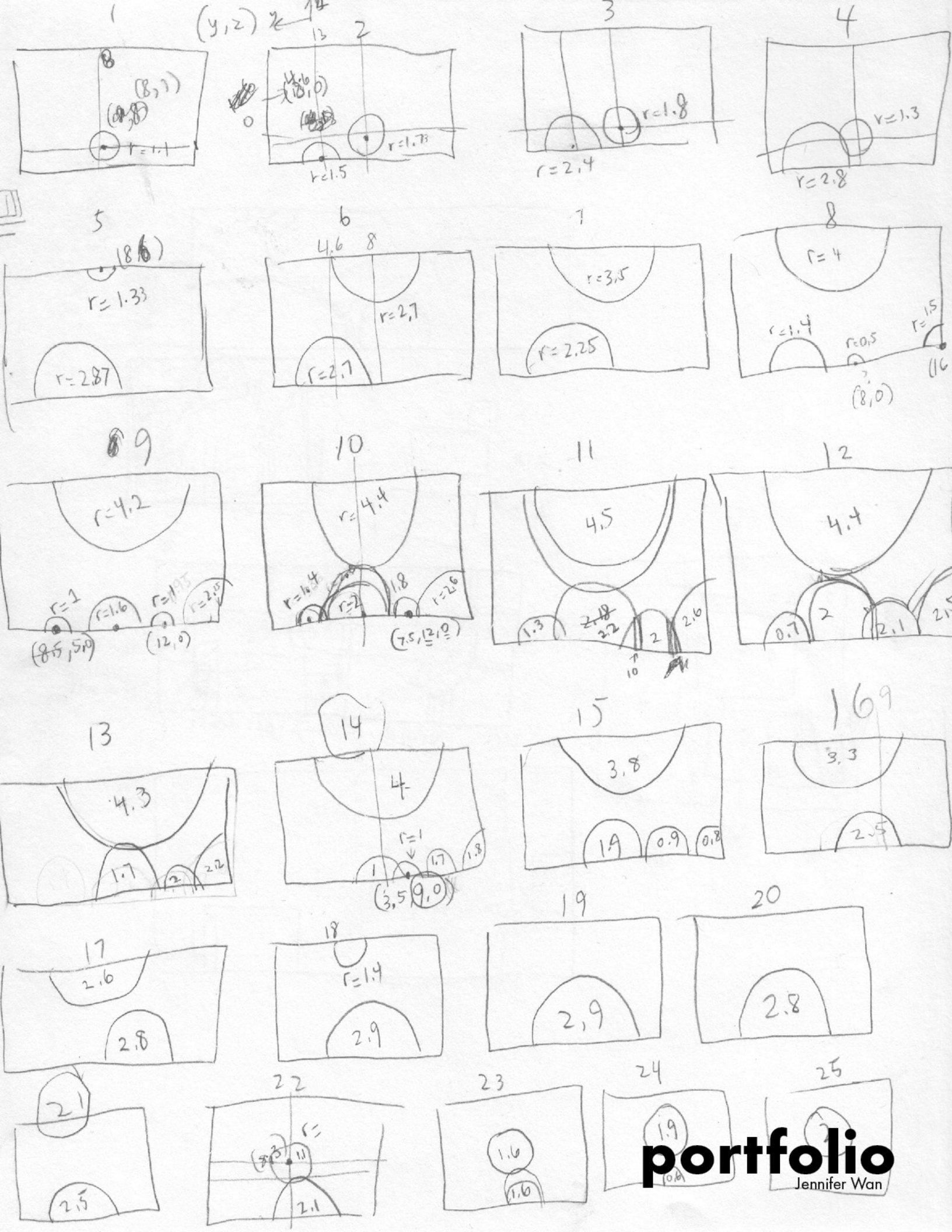




Introduction

Hi there, my name is Jennifer Wan. This portfolio is a compilation of projects that I have worked on during my study at the University of Toronto. They are a good representation of my visual abilities, sense of design, and collaboration skills. I have greatly enjoyed designing in studio, working with classmates, and receiving advice from peers and instructors.

I am currently a fourth year undergraduate student at the John H. Daniels Faculty of Architecture, Landscape, and Design, with a specialist in Architectural Studies and minors in Environmental Studies and French. In my courses and extracurriculars here, I have learned skills in graphic design, 3d modelling, conceptual thinking, and technical architectural drawings, and have developed software skills in Adobe Illustrator, Photoshop, Indesign, Premiere, AutoCad, and Rhino3d.

Enjoy!

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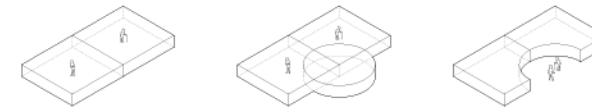
Visual representation and design

- p. 24 - 3rd year spatial understanding exercise
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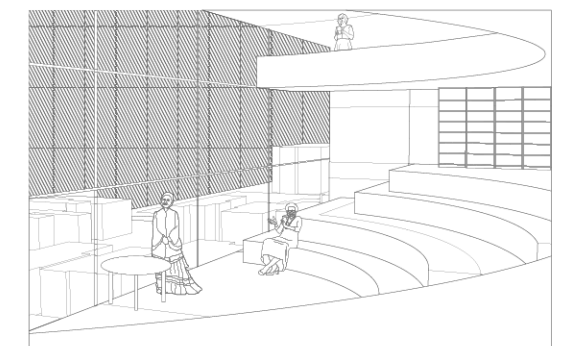
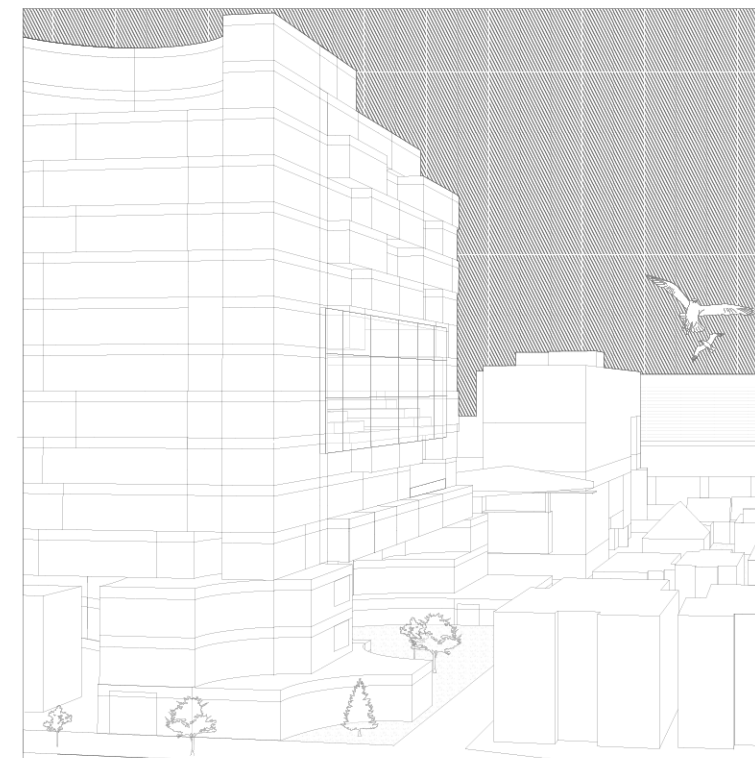
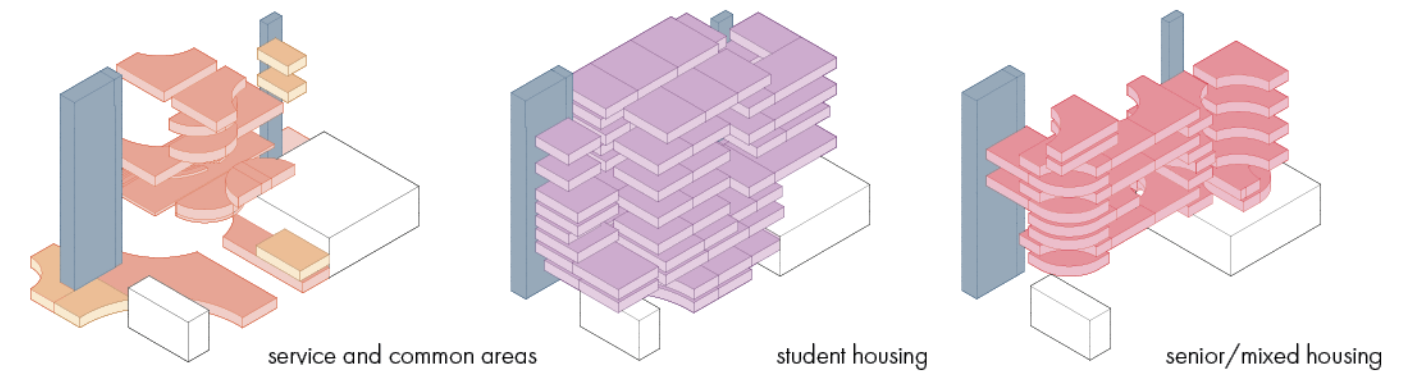
senior & student housing

ARC 362 Architecture Studio IV

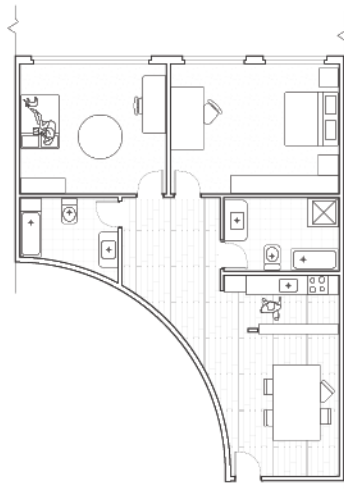
individual - duration: 5 weeks - April 2020



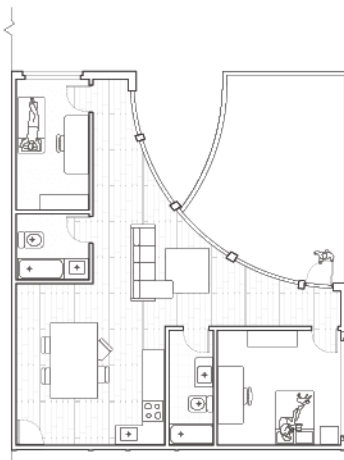
In this course, our project was to experiment with aggregative housing for two different types of inhabitants. My project explored the concept of the circle as a space of gathering that can unite seniors and students.



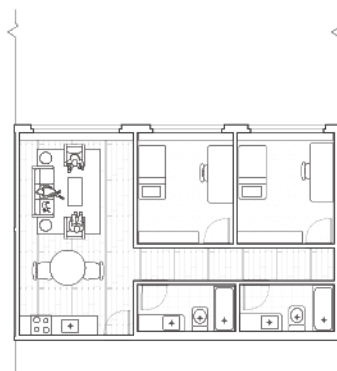
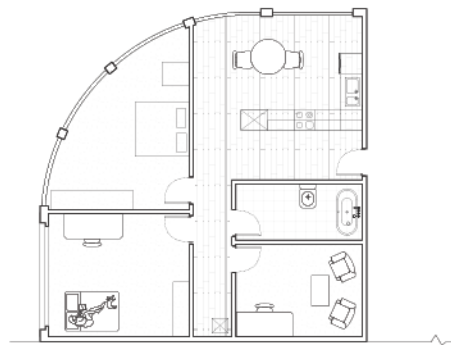
central library space &
exterior perspective



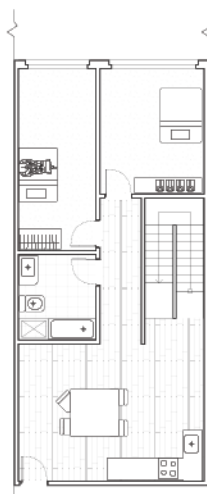
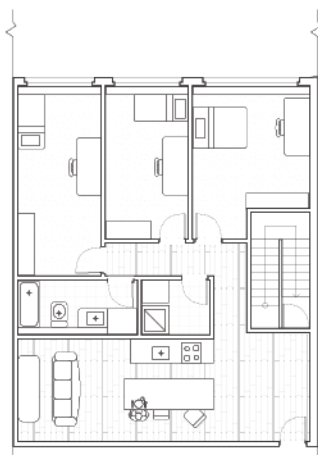
2 bedroom senior units



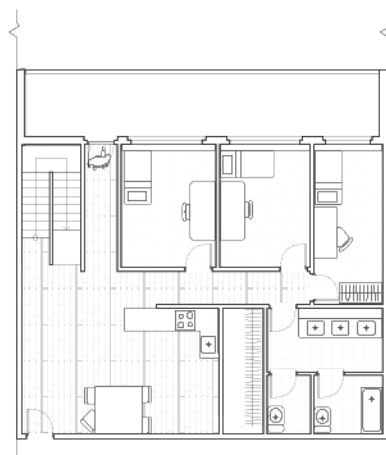
2 bedroom unit with guest/
study room



single floor unit
2-3 beds

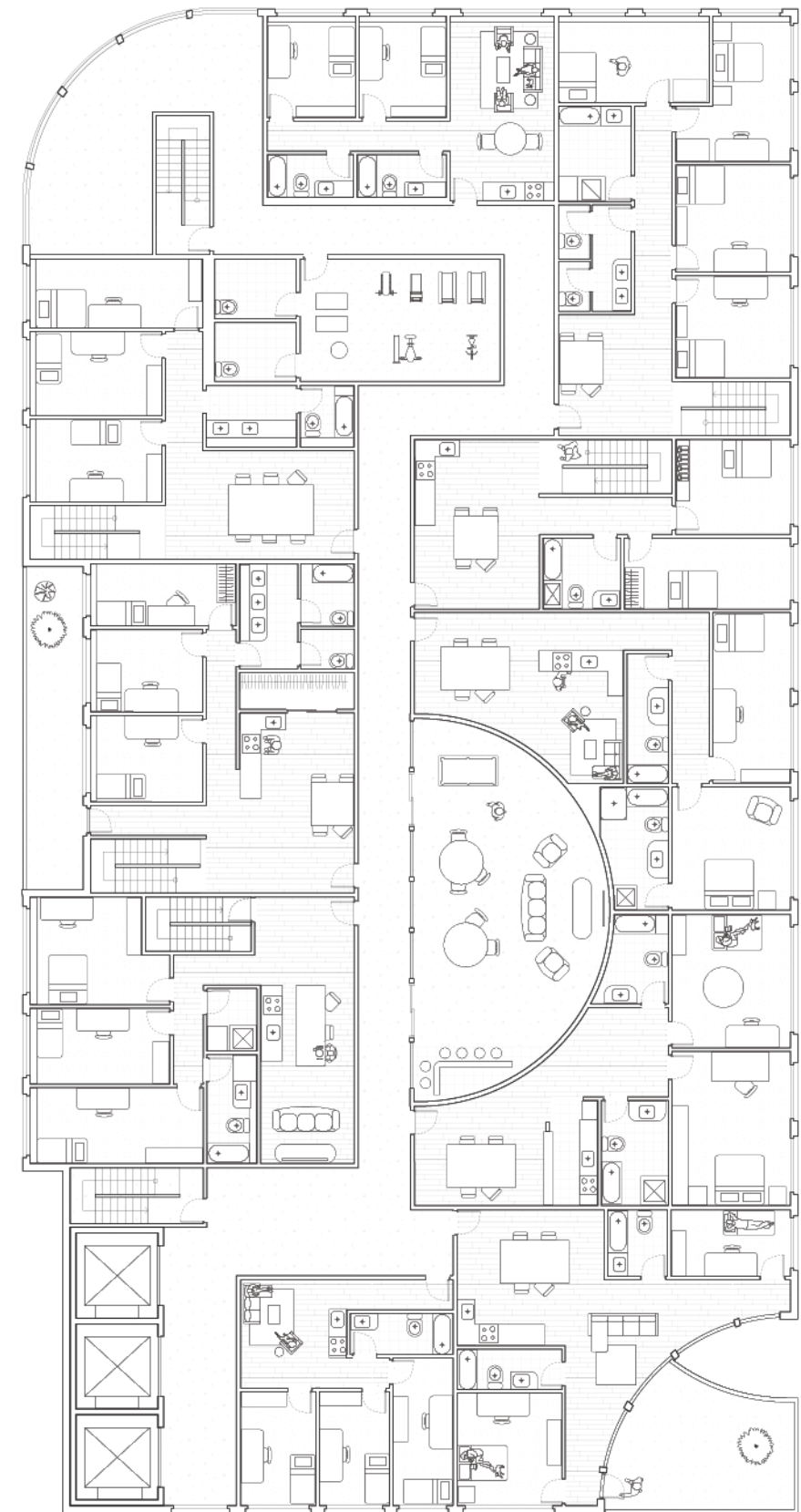
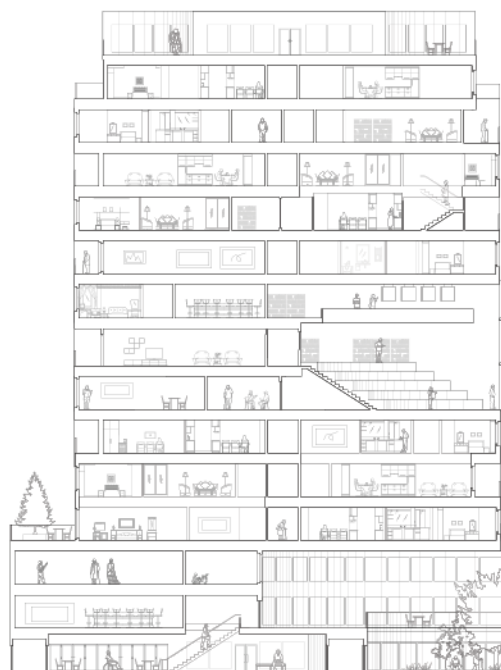


two level duplex segments
4-6 beds



Λ unit types
< cross building section

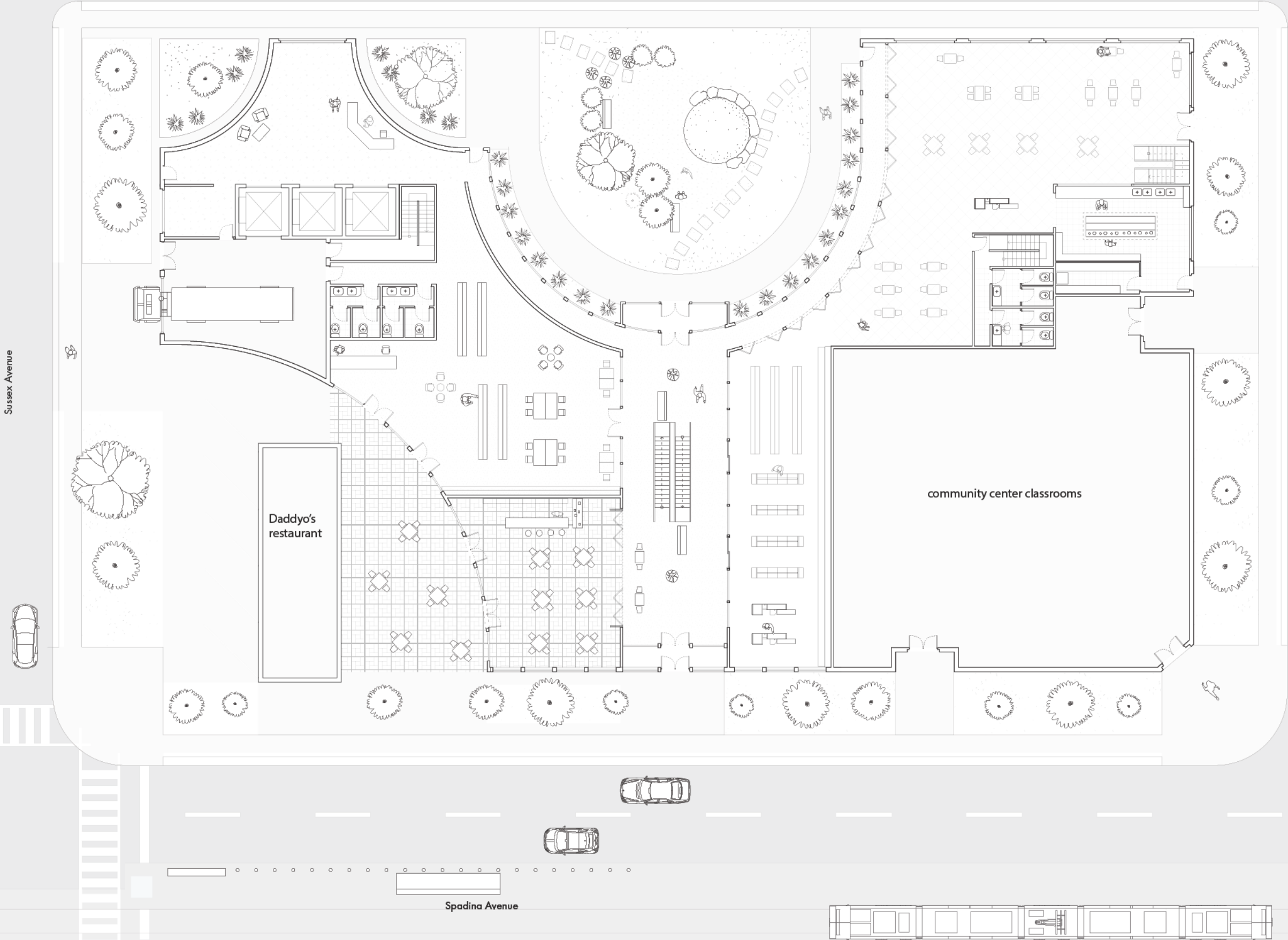
Students and seniors are far apart in age, but they have similar needs for rest, quiet, and play. They are also groups of people that may feel alone because they are away from family. These kind of spaces - libraries, outdoor space, and community areas on the ground floor - can help these two very different groups of people connect.



typical floor plan

The context is situated on the University of Toronto campus, with campus buildings on the main street (Spadina Ave.) and a residential neighborhood behind our site. We also have two heritage buildings to incorporate on the site.

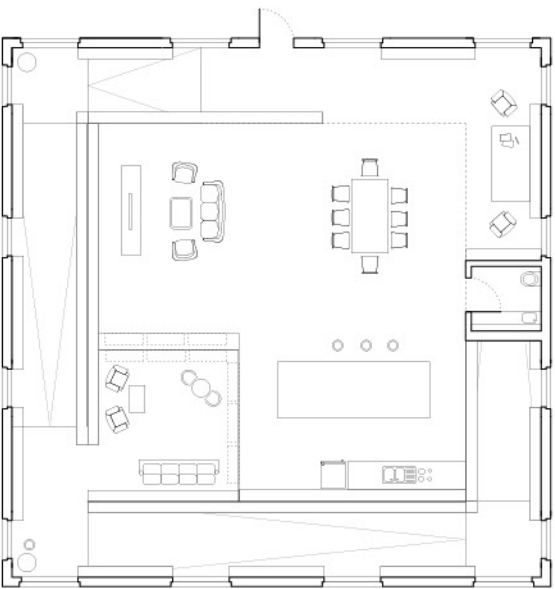
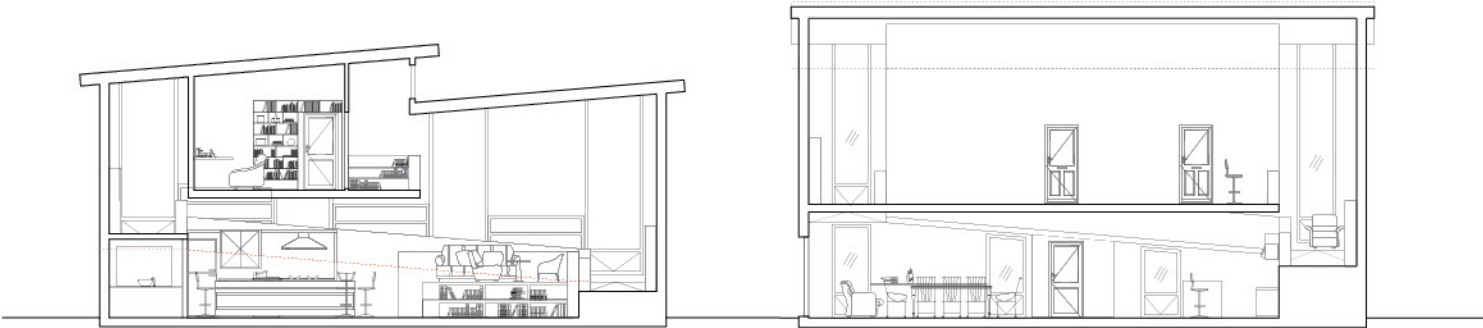
The residence combines units for two different types of residents, with the idea of shifting and cutting out from those units to create areas of congregation, inspired by the shifting units of Walden 7 by Ricardo Bofill.



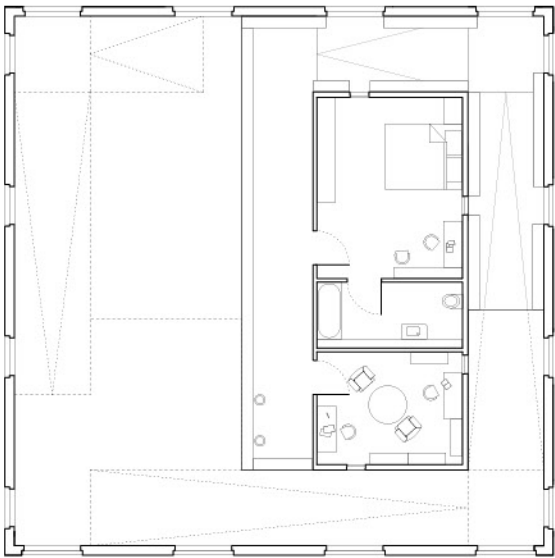
house for two inhabitants

ARC361 Architecture Studio III
individual - duration: 5 weeks - December 2019

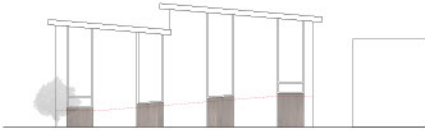
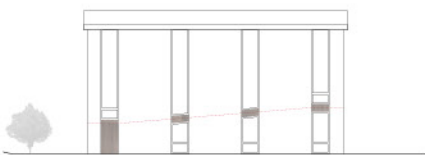
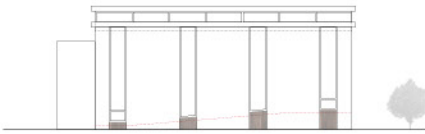
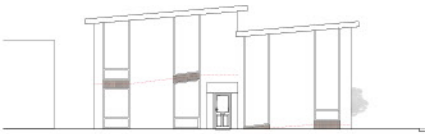
In this course, we were able to choose two different characters (from a list) who would live in a house together, situated in Midtown, Toronto. I chose a married couple: a writer with 3,500 books and a city councillor who uses a wheelchair. The design features an open concept living area and kitchen, a mid floor reading space, an accessible bedroom and bathroom on the top floor, and a study room. The ramp runs along the facade with shelves on both sides, shielding other spaces from sound pollution and creating a slow and restful transition space between public and private. This lets both parties to have both socializing and quiet spaces that they can share or keep to themselves, as well as unique spaces that can be interesting to guests or future children.



Ground Floor



Second Floor

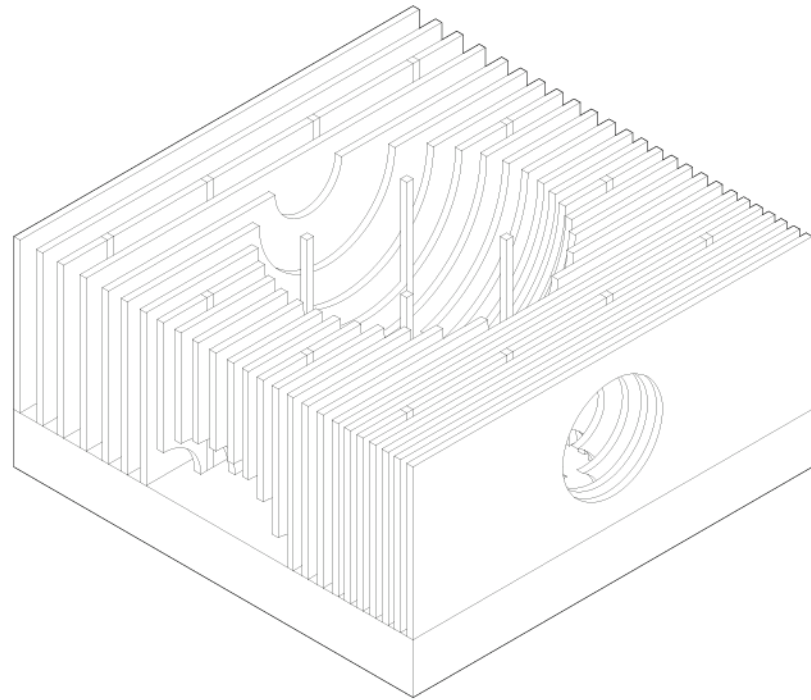
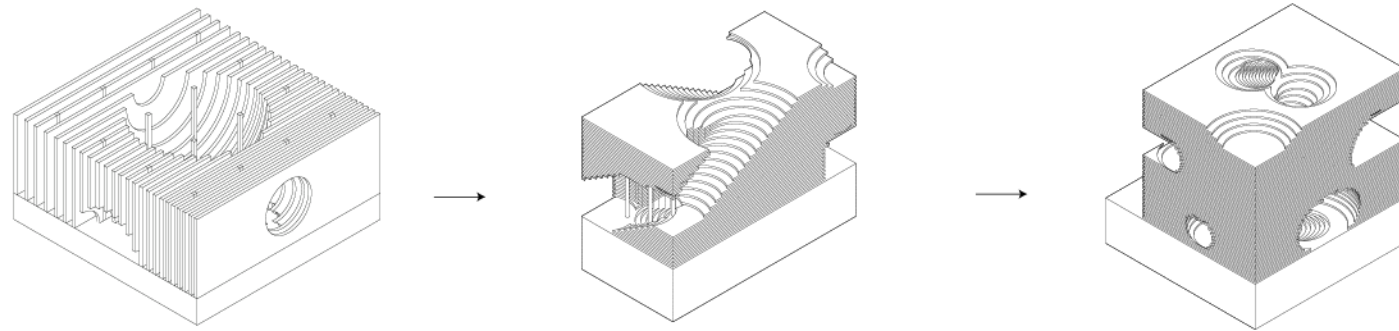


holes and peering

ARC201 Design Studio II

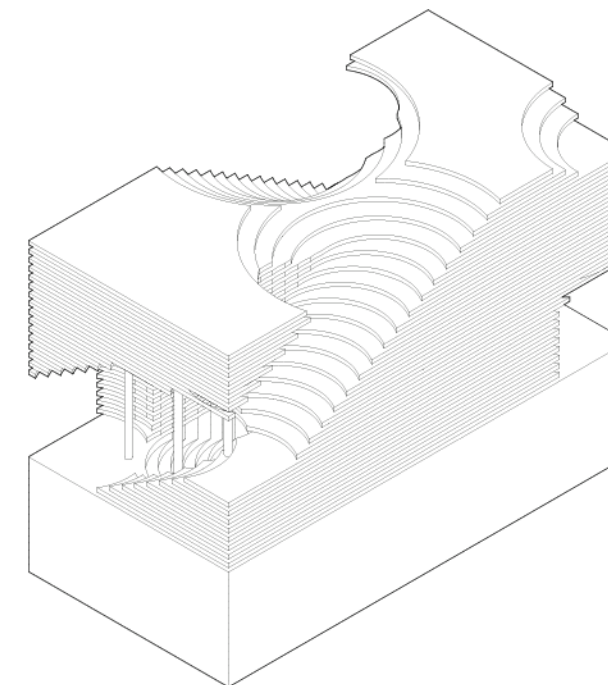
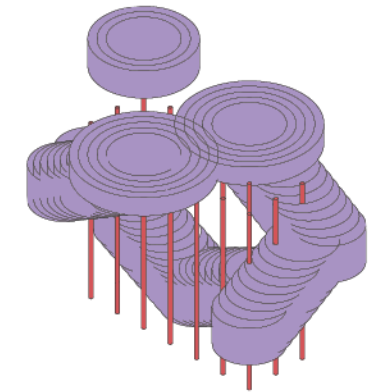
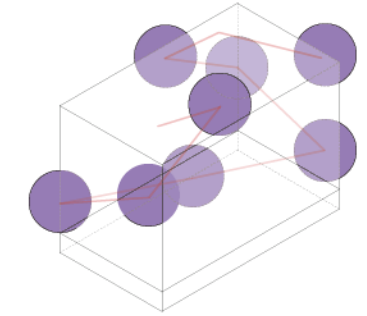
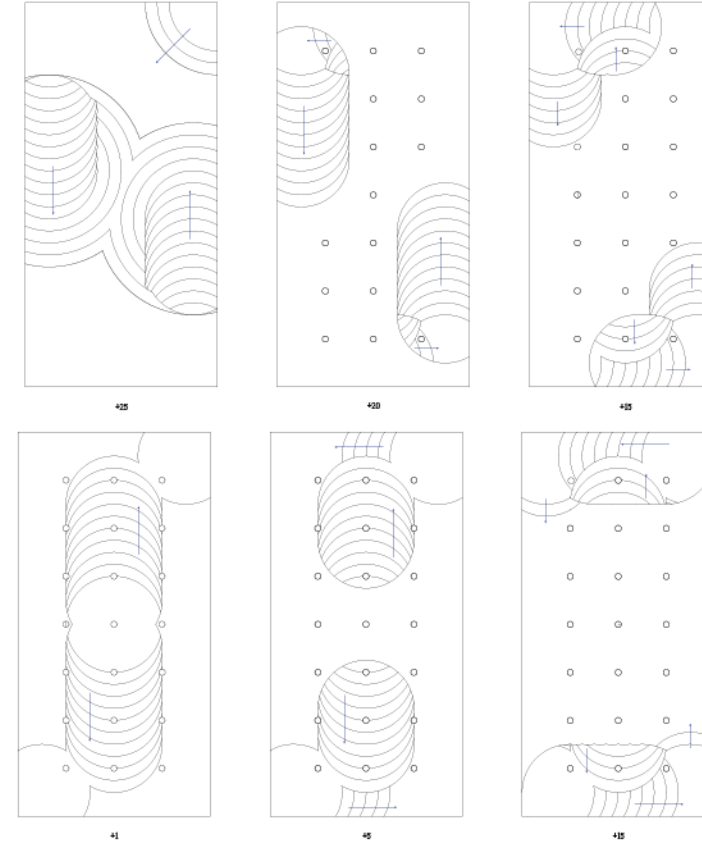
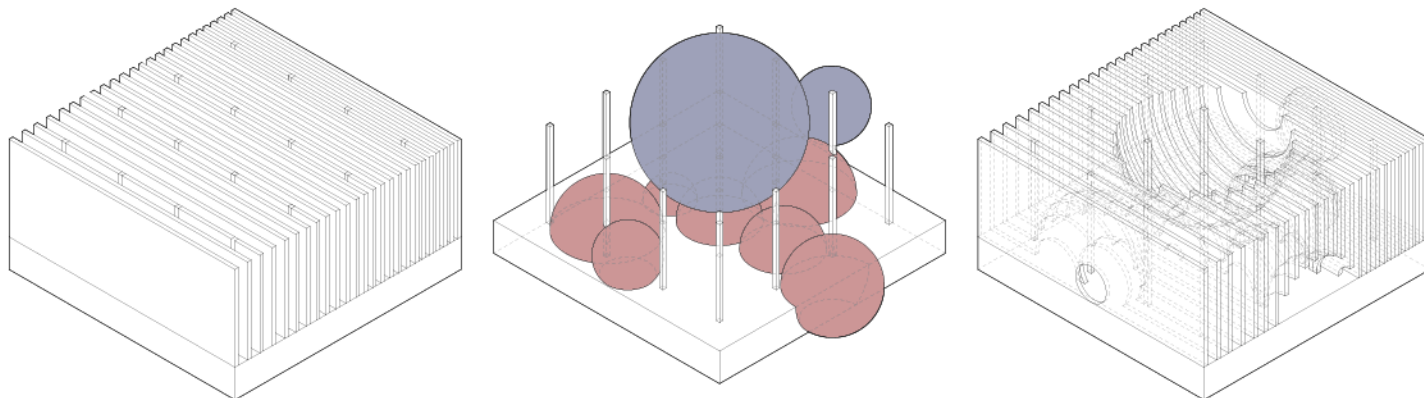
individual - duration: EX1 - 2 weeks, EX2 - 3 weeks, EX3 - 4 weeks - January 2018

"The goal of this course is to provide an introduction to the architectural design process, critically applying various representational strategies and conventions to examine spatial relationships and the qualities that define space itself. The studio is structured as a series of projects that simultaneously develop technical skills and conceptual thinking."*



EX1

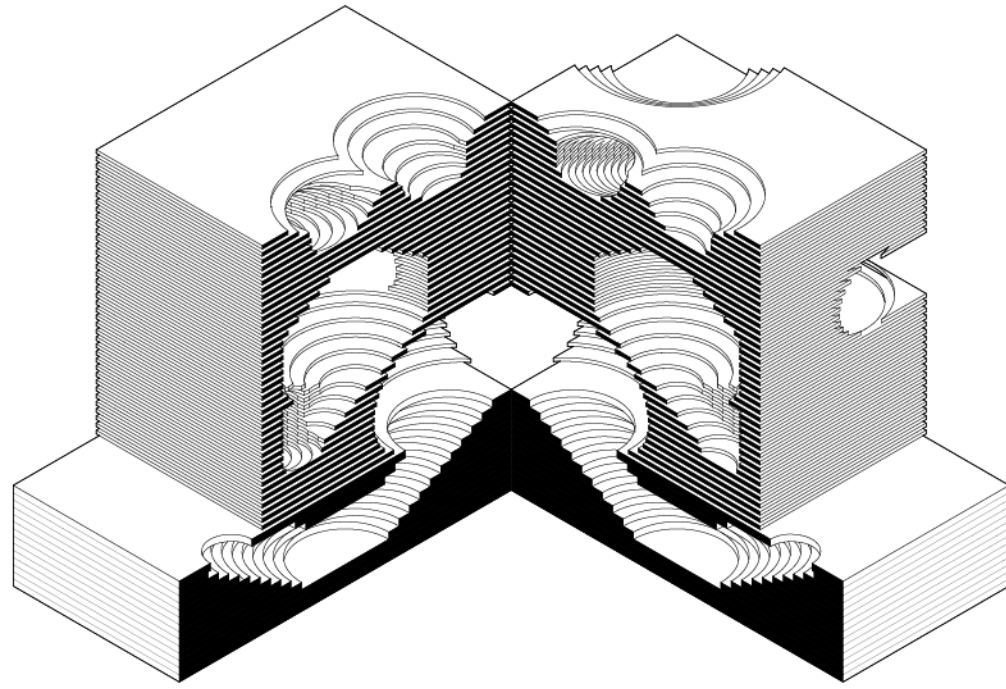
For this project we were to design a series of connected spaces using only vertical surfaces and openings, on a 16m x 16m square. I chose the word "holes", and created the required space sizes by cutting holes out of planes. The holes cut out of the planes and between the planes allowed peering between spaces.



EX2

In this exercise, we were to design 7 or more levels within a 16m x 8m parameter and a height of 8m, using only horizontal surfaces and links (stairs or ramps). I decided to continue my exploration of holes and create both the spaces and the transitional spaces by cutting holes into horizontal planes.

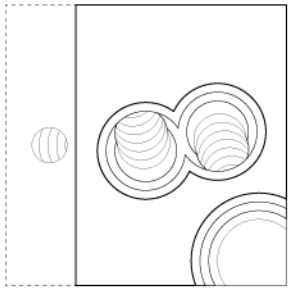
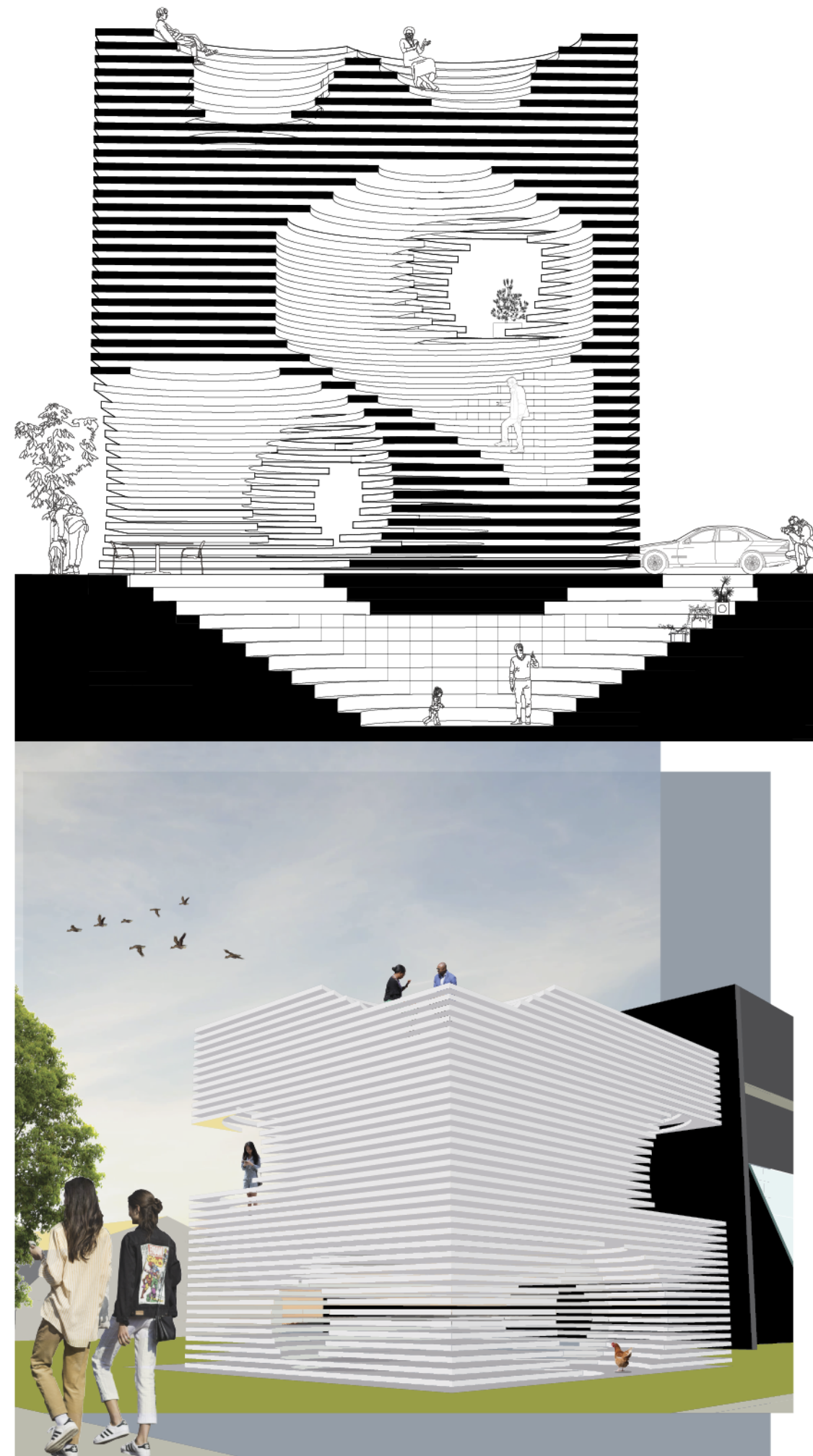
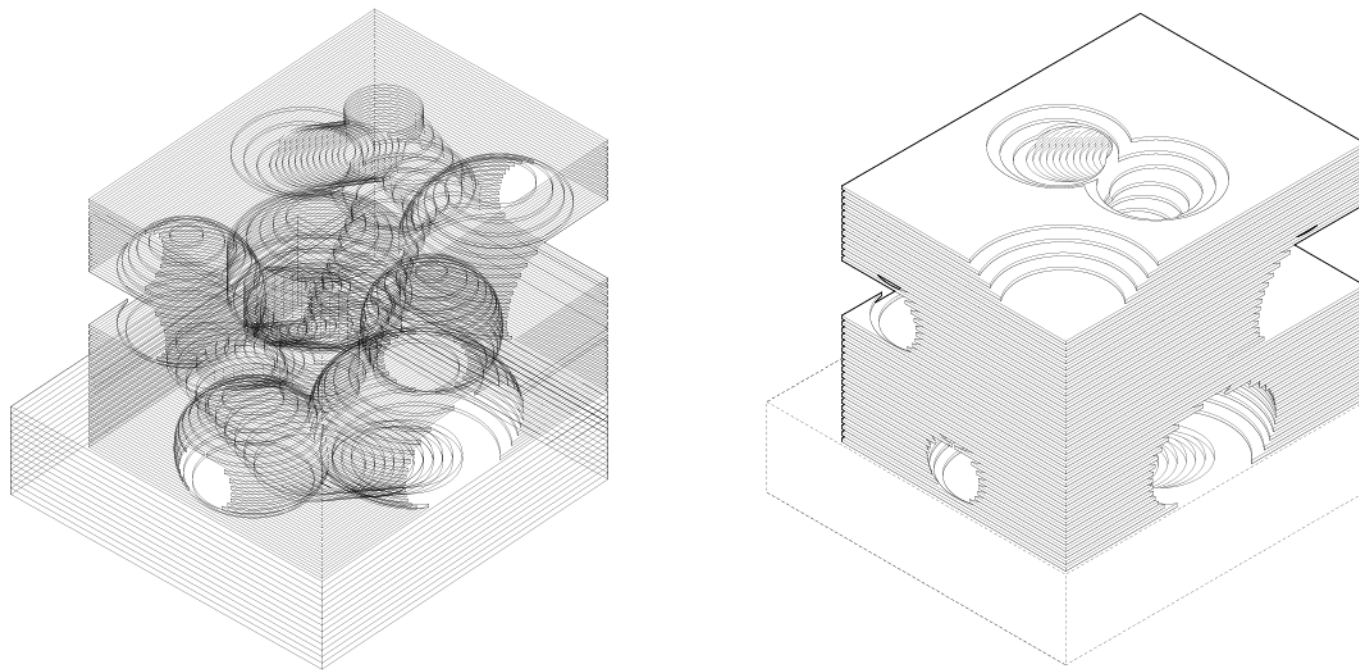
* from ARC201H1S19 Course Outline



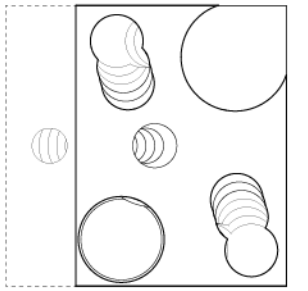
EX3

In this final exercise, we were asked to consider a 16m x 16m site on the University of Toronto campus, beside the Goldring sports center and across from our Varsity Stadium.

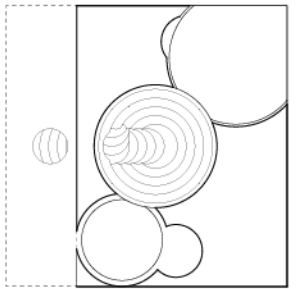
In EX3, I continue to explore the possibilities of creating spaces out of holes, while holding on to the concept of being able to peer through the layers. This time, the location of the spaces are site-responsive, such as entrances along streets and walkways and space on the roof and middle levels where one can see the stadium. Here, holes can act as rooms, transitional spaces, windows, and doors, and can be used to create staircases and seats.



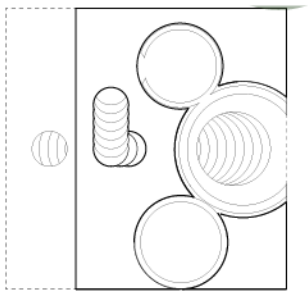
12m



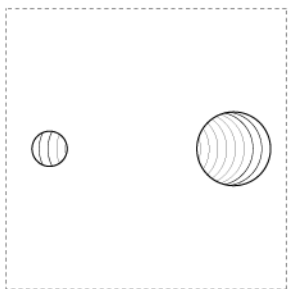
9m



6m



3m

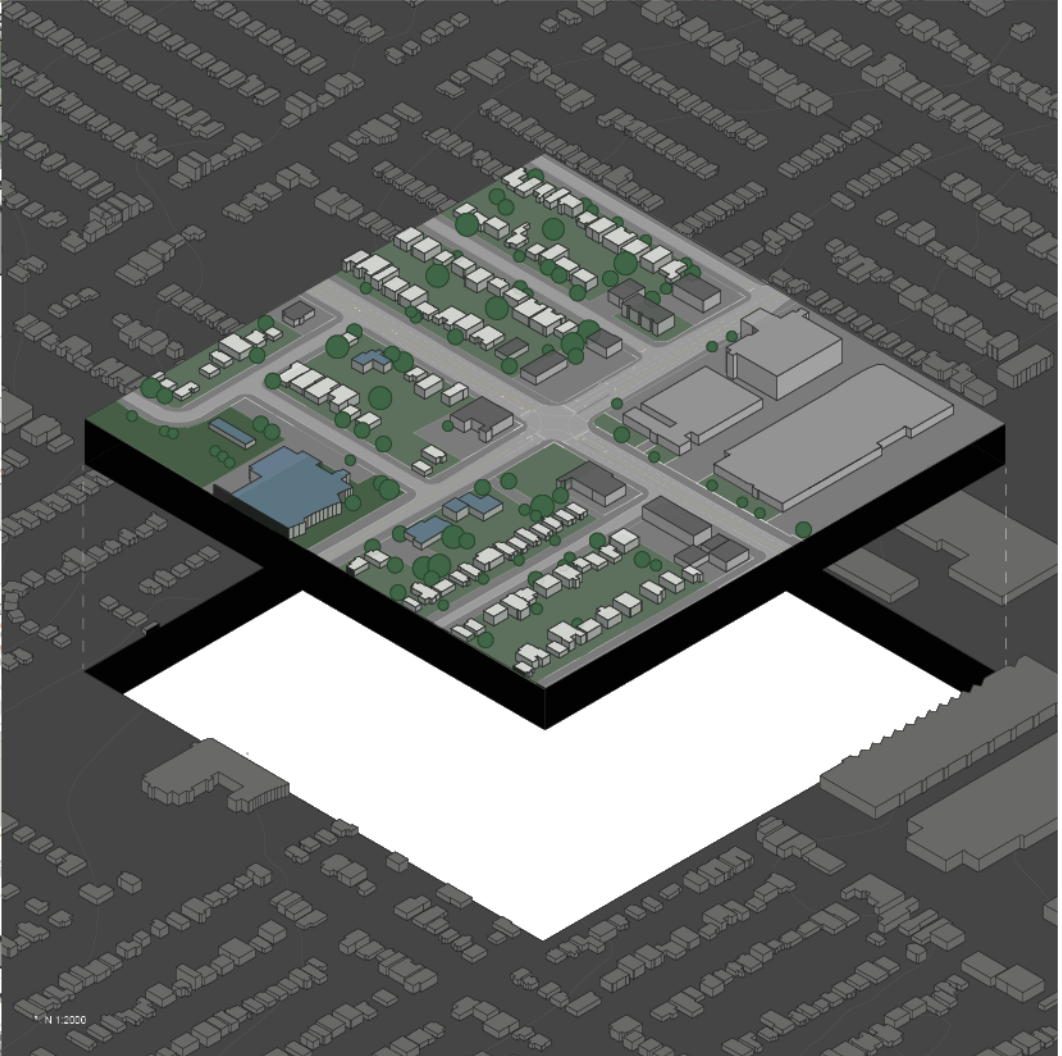


0m

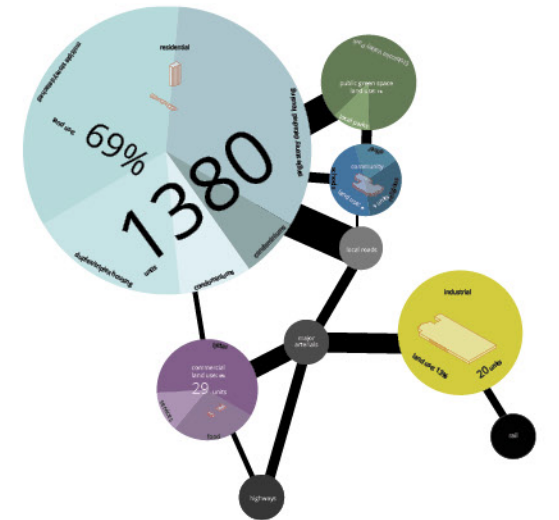
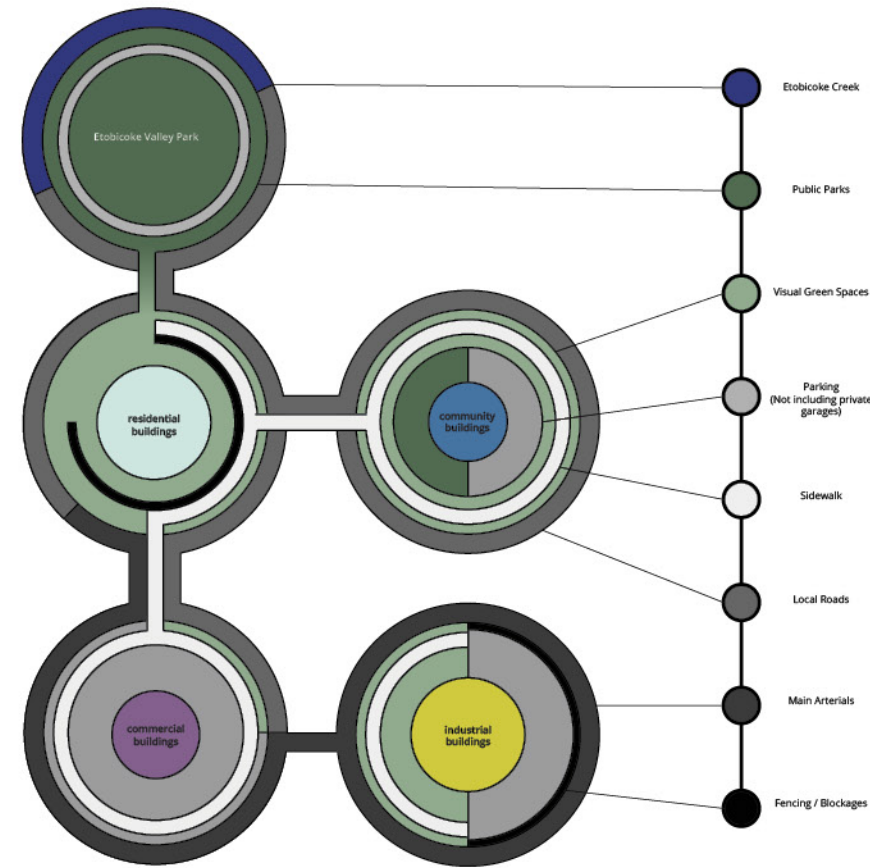
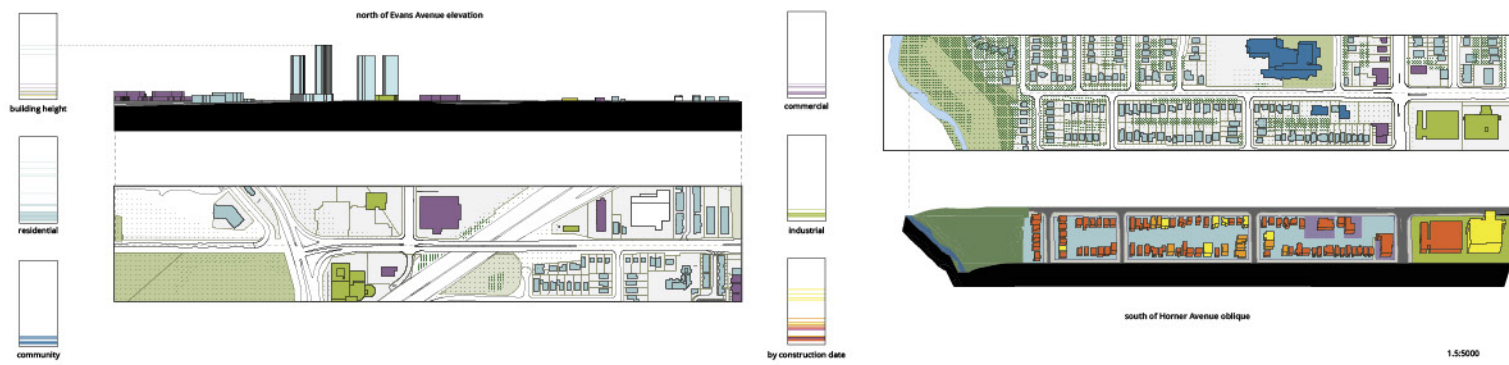
Toronto neighborhood study

ARC200 Drawing and Representation II
individual - duration: 1 semester - December 2018

For this course, we were each assigned a 2km by 2km area in Toronto to study. Mine was a neighborhood called Alderwood in the most south-western corner of the city, an area with mainly residential buildings and a large park.



In the first part of the course, we explored representing the area at various scales through flat plans and axonometric drawings. I also researched the neighborhood's development periods and saw that there was a connection between development period, urban form, and the organization of different types of land use.



The latter part of the course was about spatial analysis, classification, and observation-based analysis of the neighborhood. I was interested in how the urban form was different around different building types. My land sections examined how building heights respond to land use, and further diagrams look at how the pedestrian experiences those land uses, as well as how they are distributed across the neighborhood.

< roads & sidewalk flow in Alderwood ^ access to different parts of Alderwood v observational research documentation



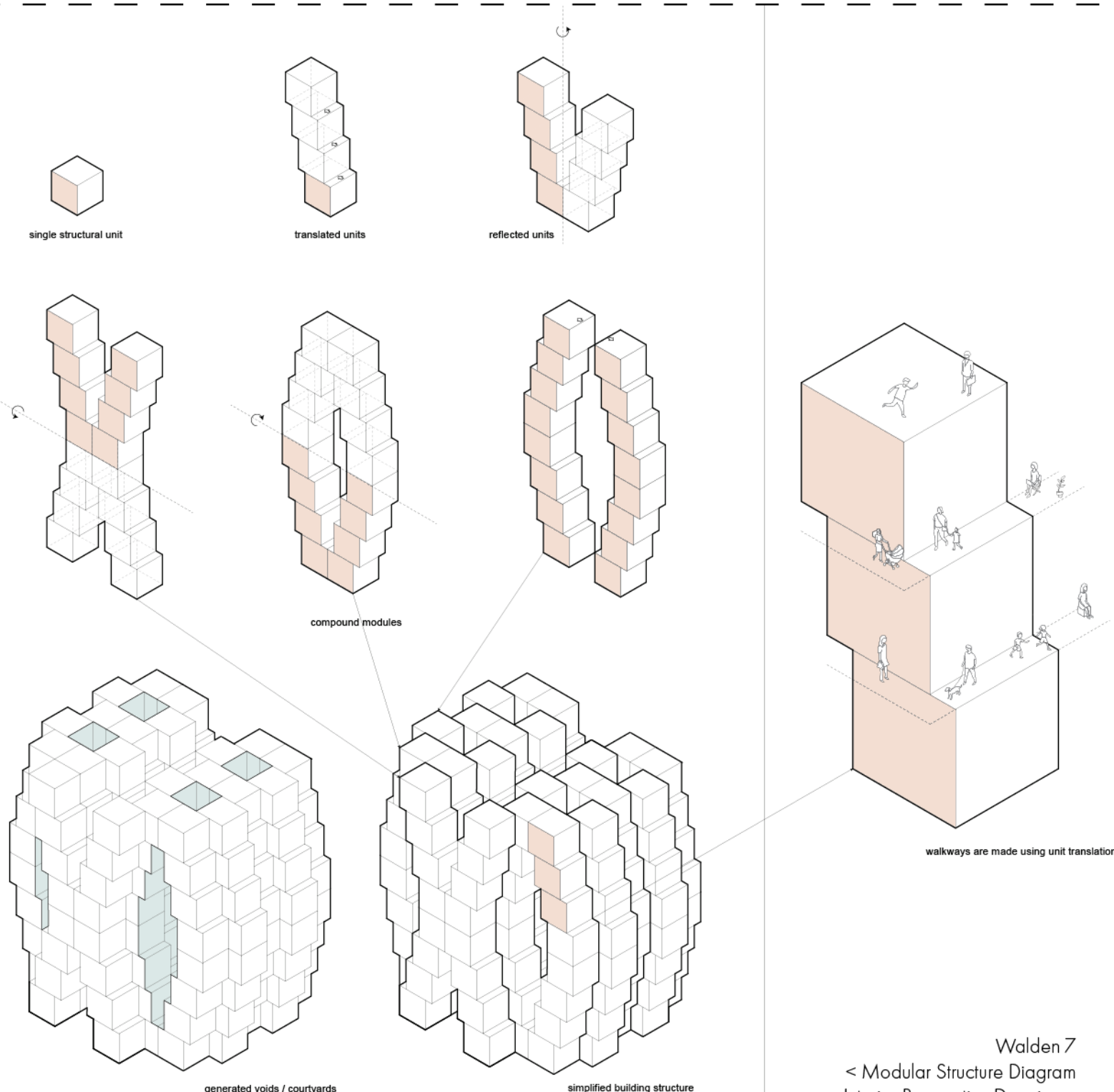
Walden 7

collaborative - duration: 1 week - January 2020
ARC 362 Architecture Studio IV

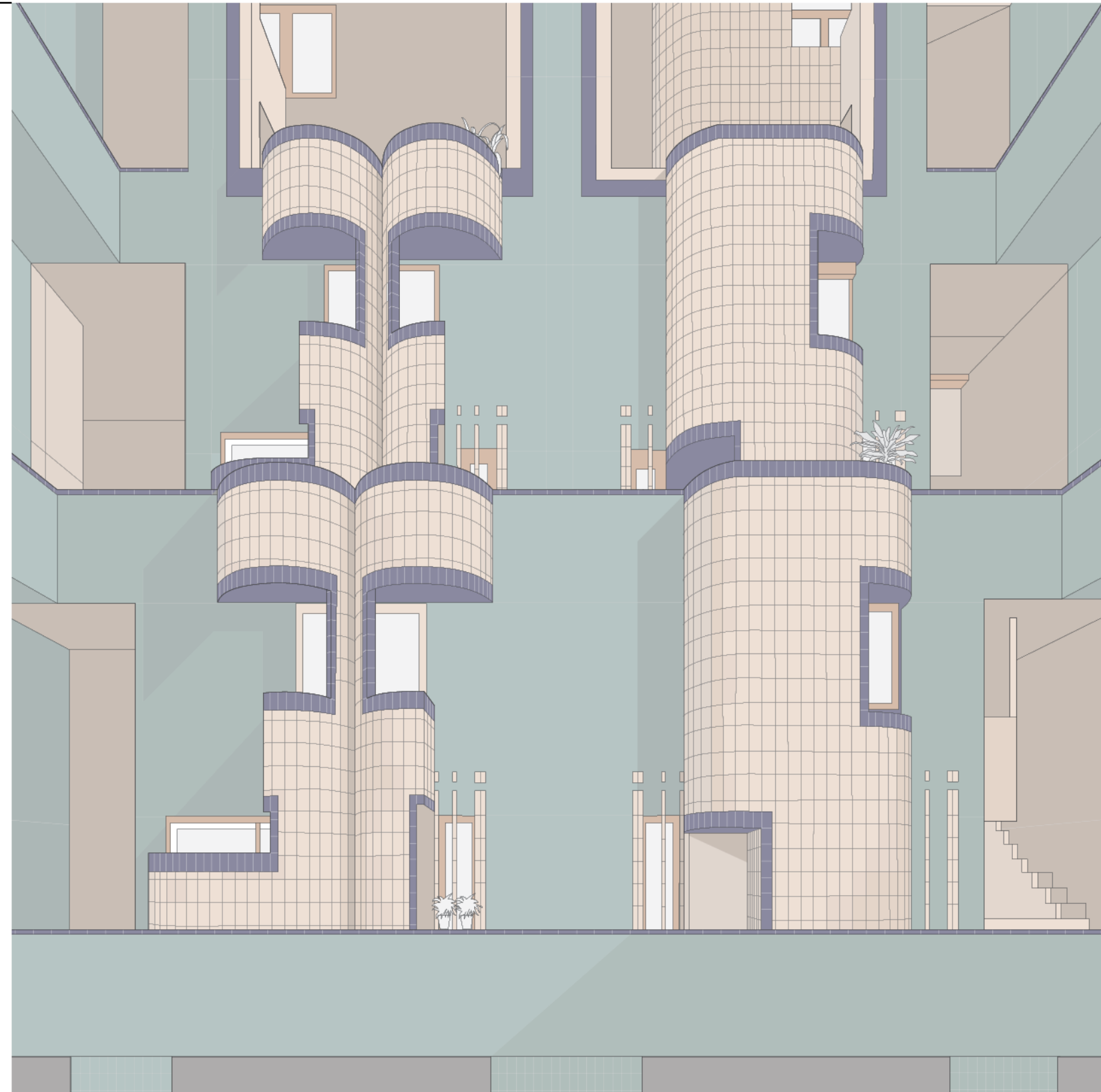
In order to explore aggregative architecture, we were assigned, in pairs, precedent studies of different multi-unit housing projects. Ying Zhou and I's project was Ricardo Bofill's Walden 7 in Catalonia, Spain.

Walden 7 has a very interesting aggregation strategy. By translating the individual units, Bofill creates modules from which the form of the building and circulation is created. In addition, housing units can be combined and separated to suit different residents and families.

My partner, Ying Zhou, and I researched and created the drawing set together. This is how we divided the work: I did the parti, unit type plans and sections, and vertical circulation and aggregation diagram; Ying did the horizontal circulation and aggregation diagrams and the ground floor plan; and we together worked on the interior perspective drawing. I have included only the drawings that I have worked on.



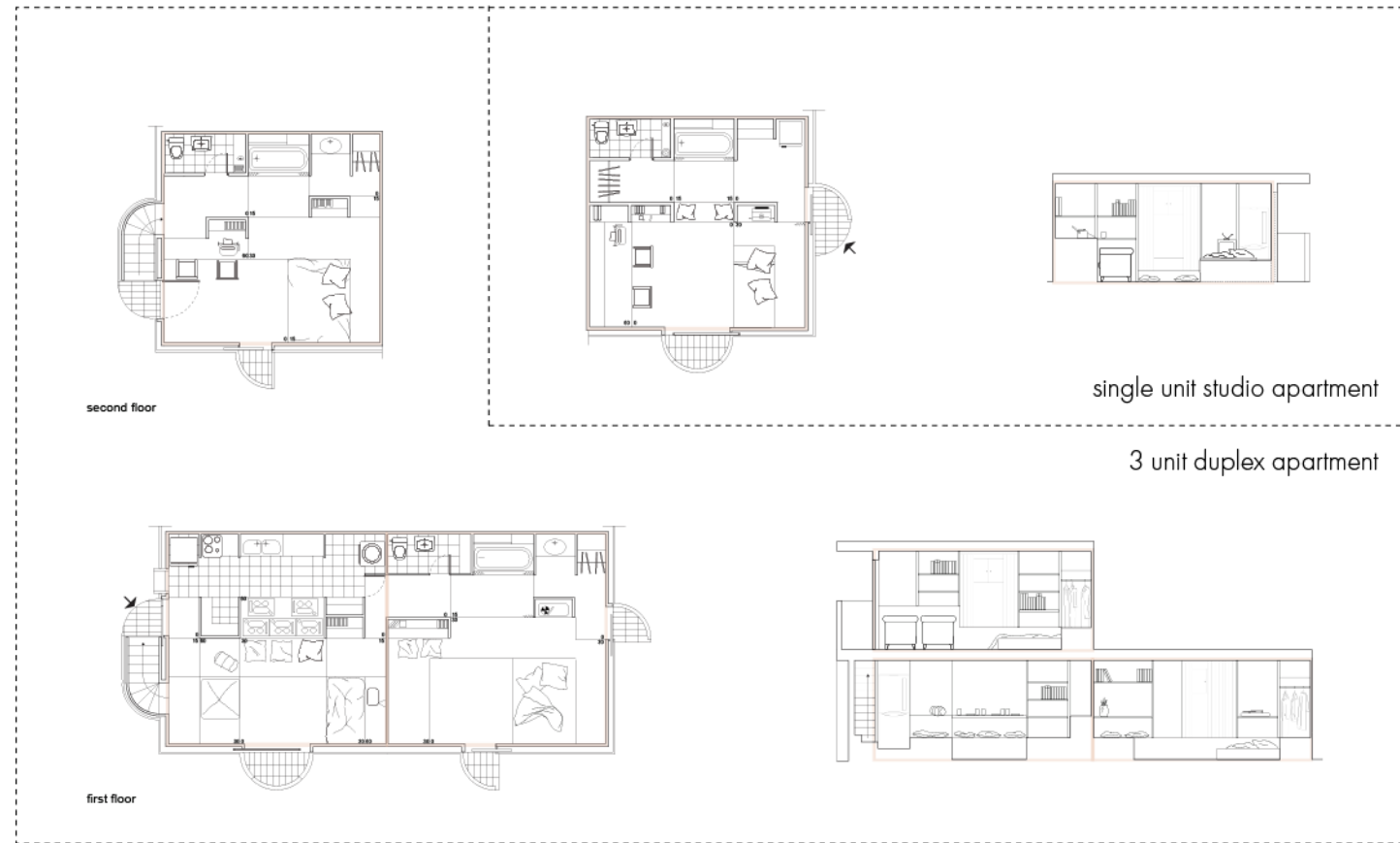
Walden 7
< Modular Structure Diagram
Interior Perspective Drawing >



Villa Snellman

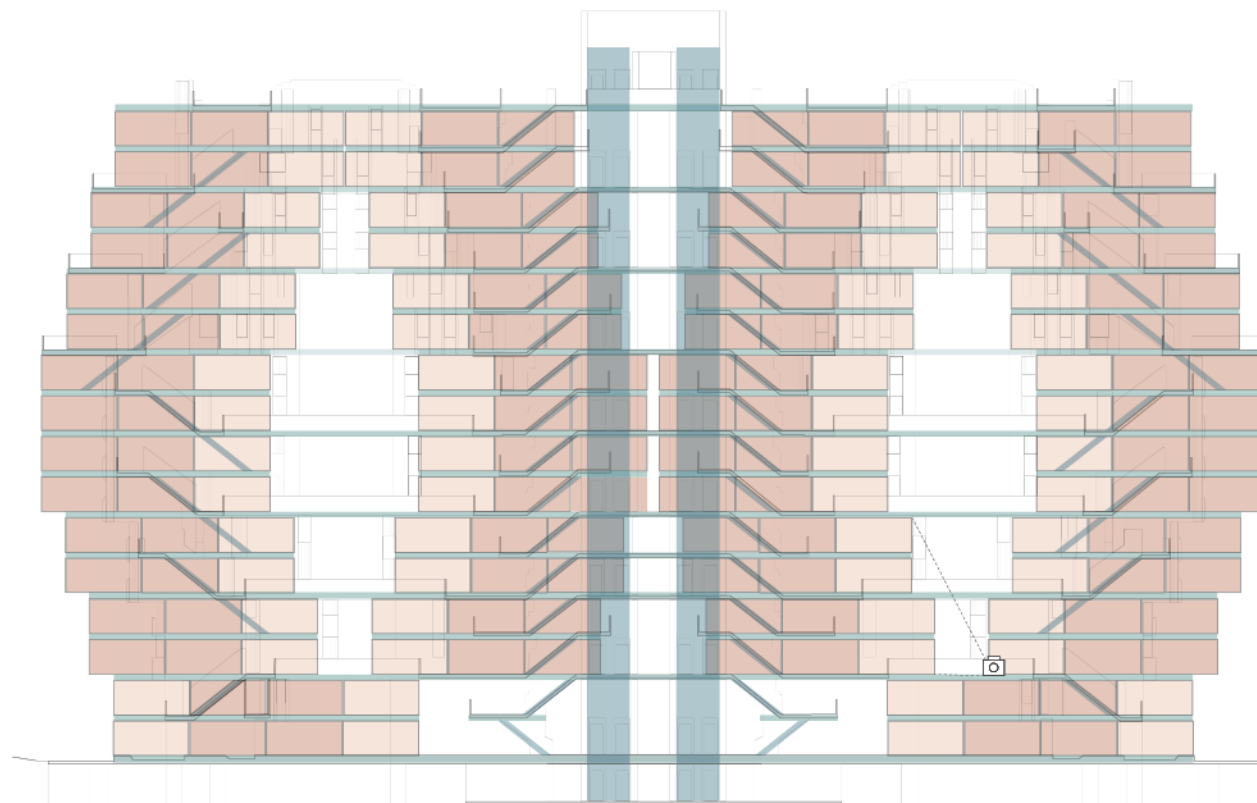
individual - duration: 2 weeks - September 2019
ARC361 Architectural Studio III

For this assignment, we were assigned precedents of different single family villas. Mine was Villa Snellman by Gunnar Asplund in Djursholm, Sweden. We started by recreating basic architectural drawings of the precedents, researching about the historical and urban context, then creating diagrams and models to communicate our interpretation or narrative.

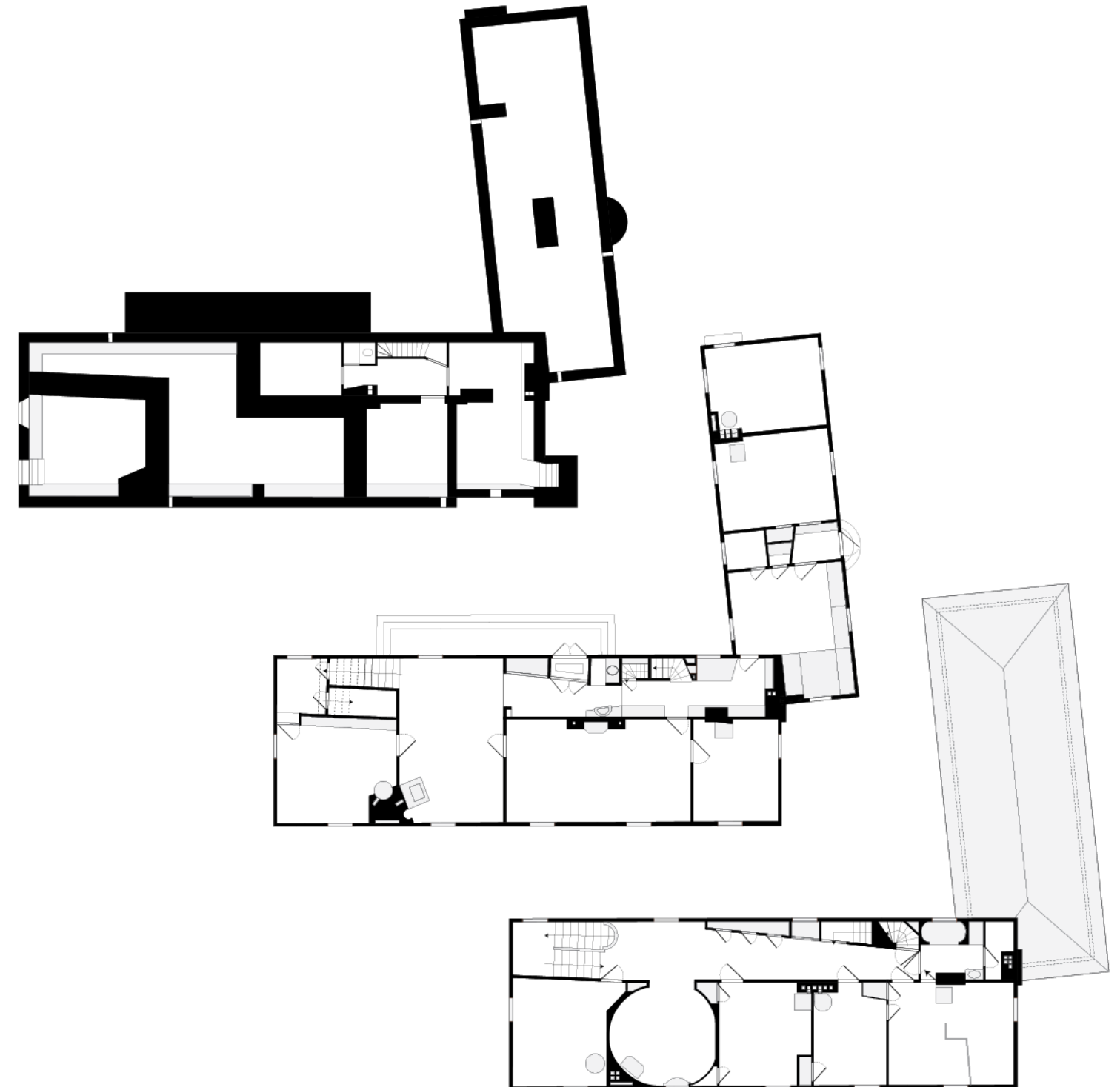


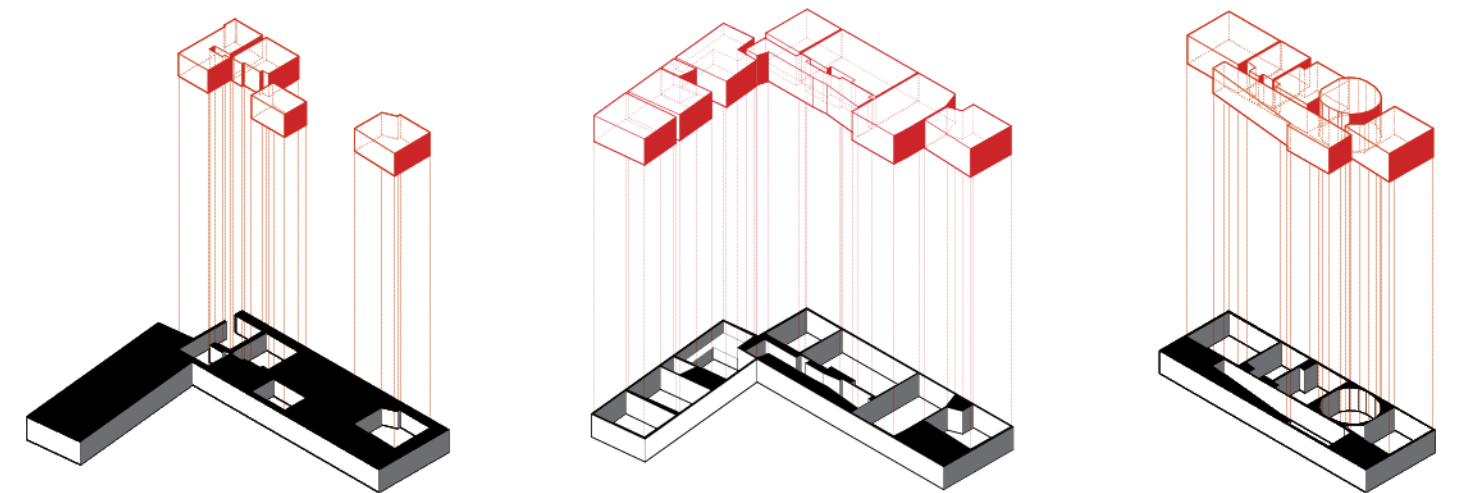
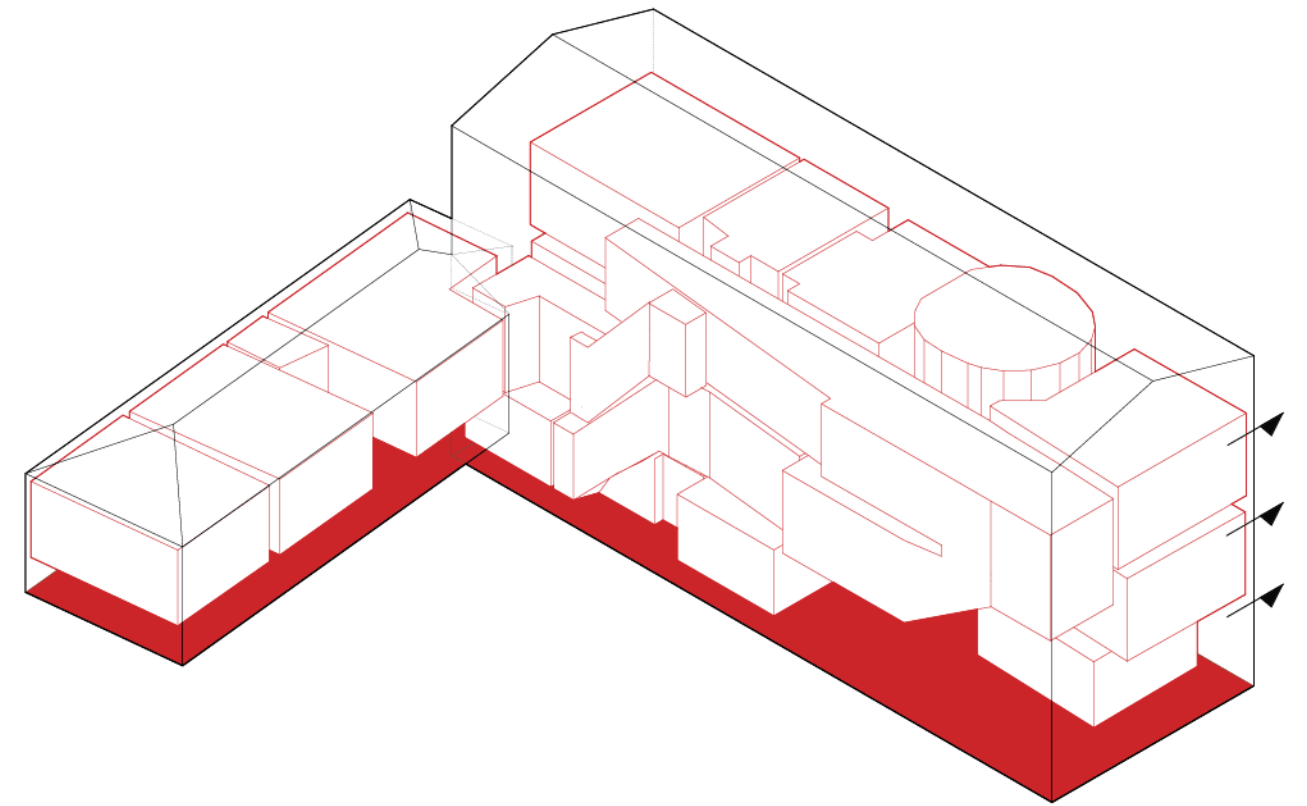
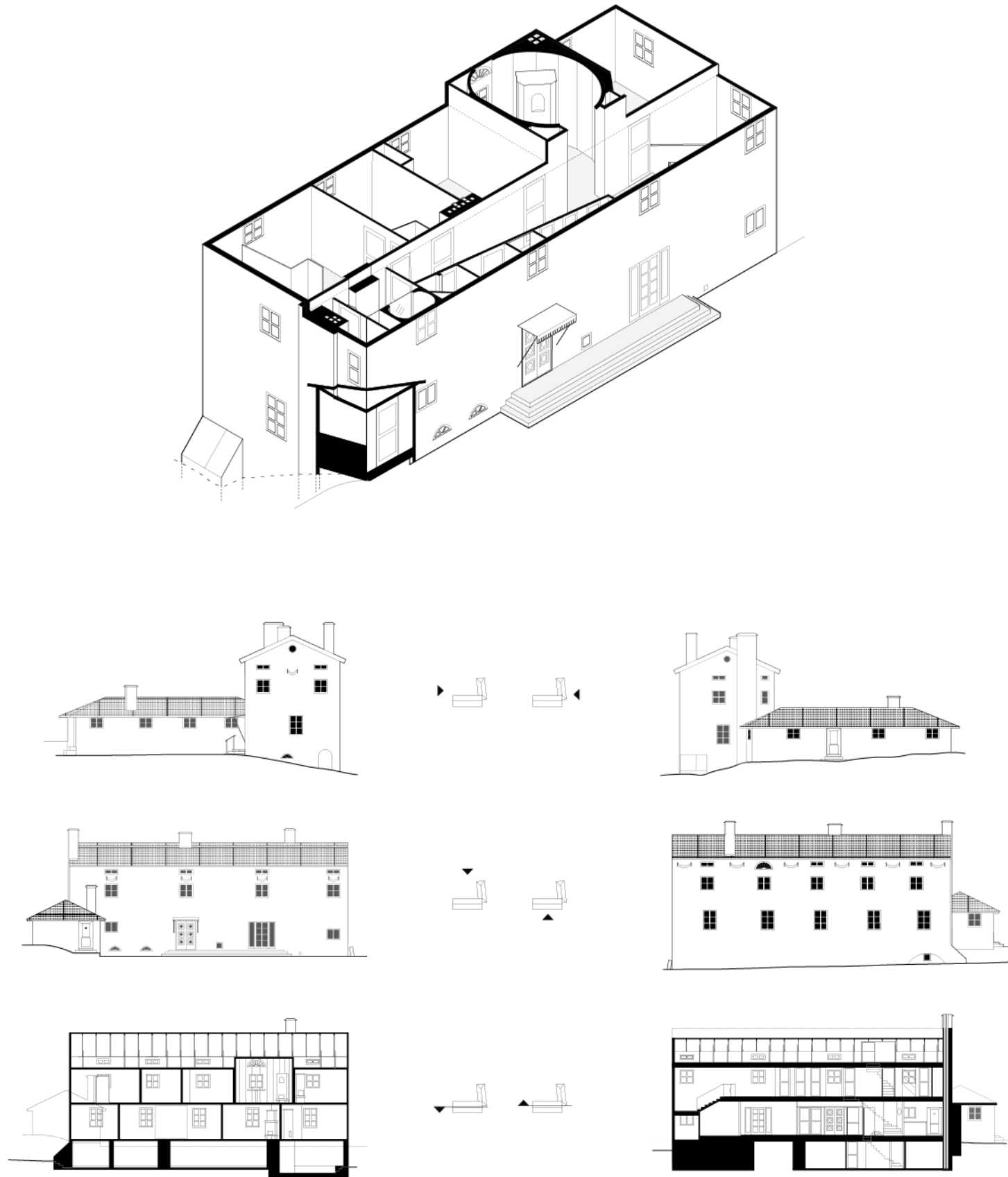
Vertical Circulation and Aggregation Diagram v

^ Unit Types



Colour Drawing Point of View
Units Vertical Circulation Horizontal Circulation Hidden Circulation





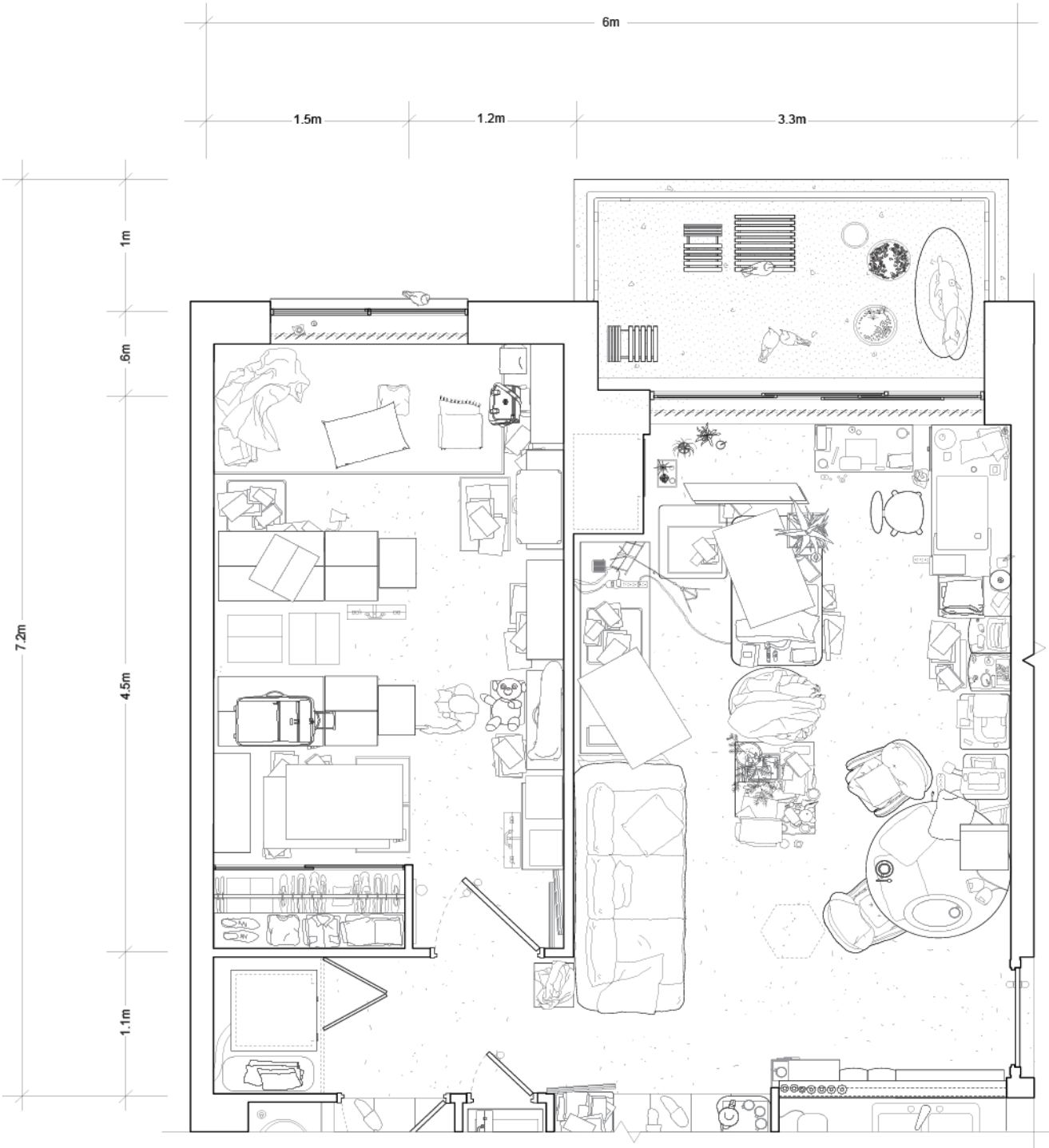
In Gunnar Asplund's Snellman House, I was fascinated by the way he concealed a complex variety of rooms in a very simple facade- he created unique rooms that varied in size, shape, and height in response to function, site, and lighting, and which then plugged into the main circulation hallway like a joint. In these diagrams, sections, and plans, one can see the differences in those spaces.

For the model, I combined these concepts by hiding a puzzle, where the rooms plug into the halls, in the Snellman facade. This model can be seen on page 28.

half + one

individual - duration: 2 weeks - January 2020
ARC 362 Architecture Studio IV

For these exercises, we were asked to overdraw a photo of our workspace and create a plan of our home to get a better understanding of how objects occupy a space. Although I have felt discontent before with how many objects are in my space because of living with a parent, this assignment helped me appreciate and be grateful for the space I have.

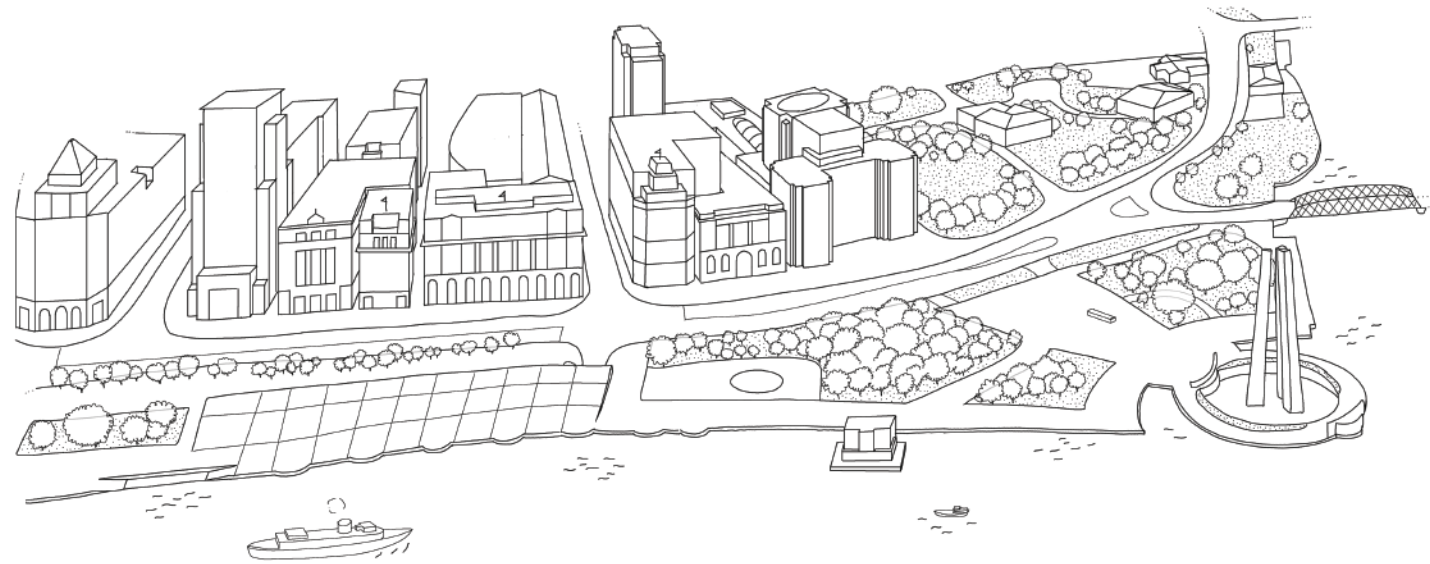


Shanghai: a diptych

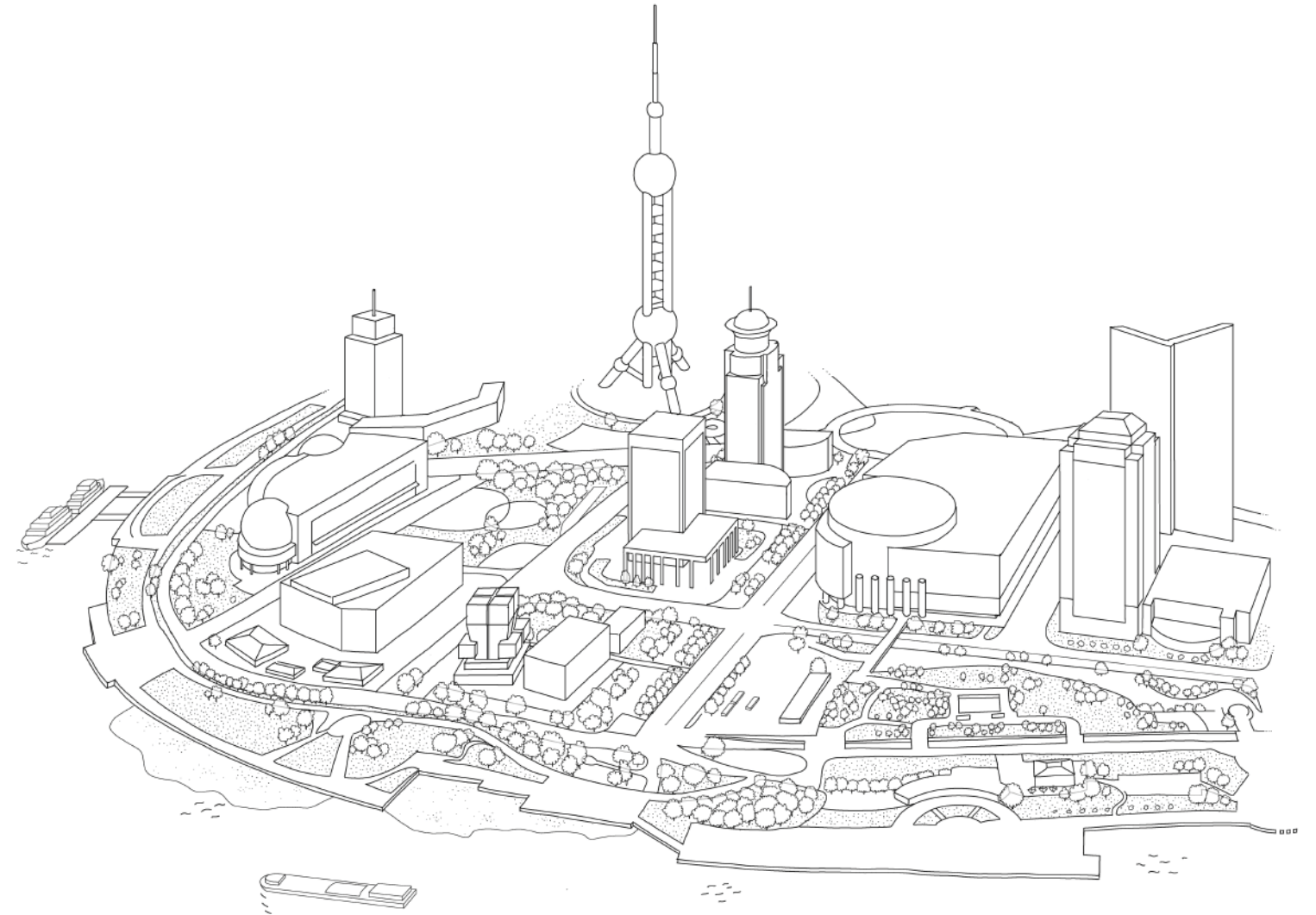
individual - duration: 3 weeks - January 2020

ARC 451 Advanced Topics in the History and Theory of Architecture: Architecture & the Sea

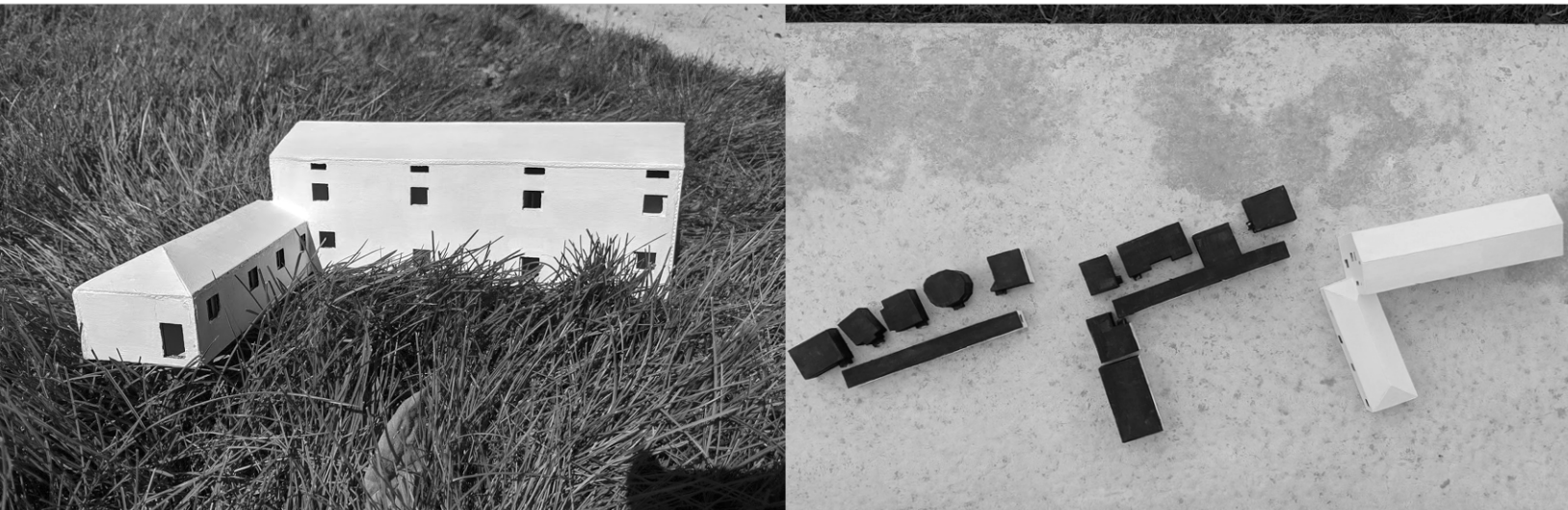
For this course, I studied Shanghai's history as a port city and how it is represented through the architectural and urban form, east and west of the Huangpu River at the Bund and Lujiazui Financial District. The west of the river, or Puxi, historically was filled with foreign settlements and colonial architecture and development. The east of the river features iconic postmodern buildings that are part of Shanghai's skyline today and are the result of municipal planning in the 80s.



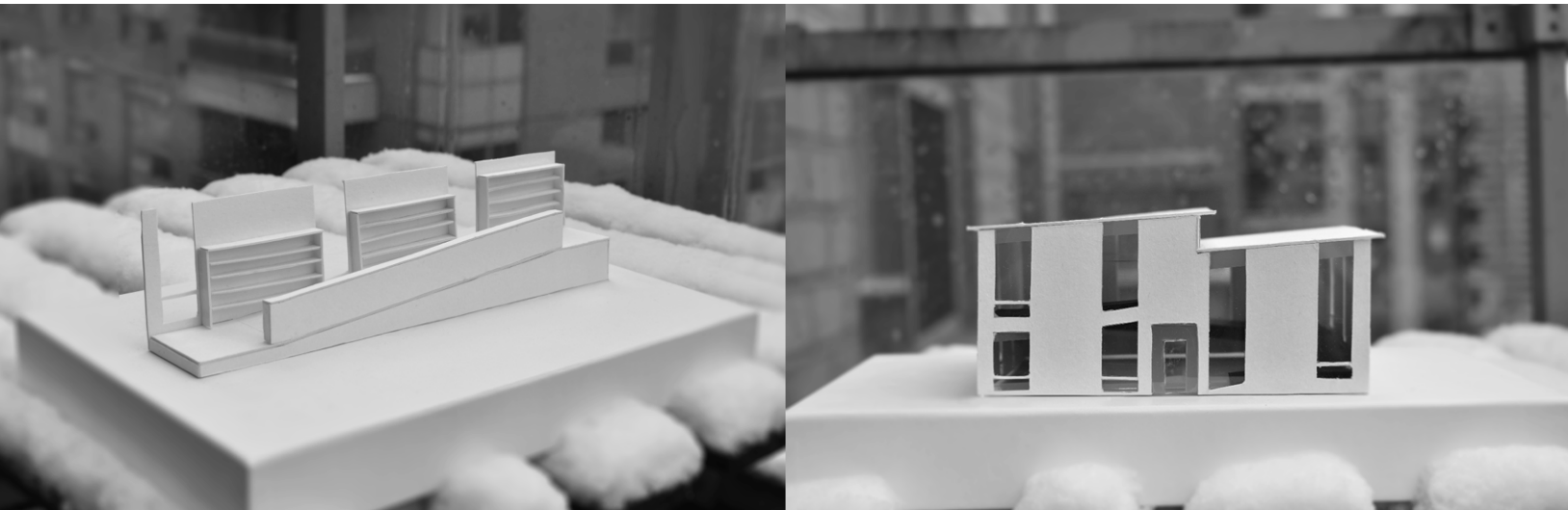
The piece is a drawing of two sides of Huangpu River at where the edges of the Bund and Lujiazui Financial District skyline meet. Inspired by Wanghui's scroll paintings of the journeys by emperors Kangxi and Qianlong, the drawing depicts, in a distorted perspective, the edge conditions of Pudong and Puxi on the Huangpu River. The urban form and architecture are drawn using references from Google maps, Google earth, and images of the specific buildings. The diptych format reflects the contrasting and similar aspects of the two sides of the river, and the fact that they are opposing but connected, just like folding diptych plates.



physical models



This is a semi-abstract puzzle model of Villa Snellman for ARC 361 (page 21), made of painted cardboard. The model shows how Asplund's facade hides the villa's complexity, as well as how the rooms plugged into the main circulation like muscles on a joint. This model can be assembled and disassembled by plugging the interior pieces together.



These are two models of the house for two individuals for ARC 361 (page 8). They are made of museum board, acrylic boards, and foamcore. They illustrate the ramp system in the design, and how the bookshelves and facade are organized around it.

other work



Here are two examples of my photography. I enjoy capturing unique landscapes and close-up photos of wildlife. I also enjoy photographing people, but I take pictures of landscapes the most often.



One of the extracurriculars I am involved in is Hart House's *demo* Magazine. We are student run, and each year we release a printed issue with around 36 pages. These are two examples of print issue covers I made as the design editor.

